

**AMENDMENTS TO THE CLAIMS**

Claims 1-70. (Cancelled)

Claim 71. (Currently amended) A biosensor device comprising an endotoxin binding protein immobilized on a solid phase support wherein said endotoxin binding protein is from a horseshoe crab *Limulus polyphemus* and has the amino acid sequence of SEQ ID NO:1.

Claim 72. (Original) The biosensor device of claim 71, wherein said solid phase support is quartz or silicon.

Claims 73-79. (Cancelled)

Claim 80. (Currently amended) A method for assaying endotoxin concentration in a material suspected of containing endotoxin, which comprises

contacting said material with a biosensor device comprising the endotoxin binding protein of a horseshoe crab *Limulus polyphemus* wherein said endotoxin binding protein is immobilized on a solid phase support,

detecting a change in capacitance, resistance or acoustic wave of said solid phase support upon contacting of the material with the biosensor device, and

correlating the change in the capacitance, resistance or acoustic wave with ~~the~~ changes in capacitance, resistance or acoustic wave observed with standard solutions of endotoxin binding protein.

Claim 81. (Original) The method of claim 80, wherein said solid phase support is quartz or silicon.

Claim 82. (Currently amended) The biosensor device of claim 71, wherein said immobilized endotoxin binding protein ~~has the amino acid sequence of SEQ ID NO:1~~ and is free of the contaminating components naturally associated with the horseshoe crab.

Claim 83. (Previously added) The method of claim 80, wherein said immobilized endotoxin binding protein has the amino acid sequence of SEQ ID NO:1 and is free of the contaminating components naturally associated with the horseshoe crab.

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